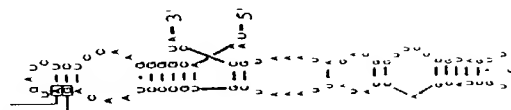
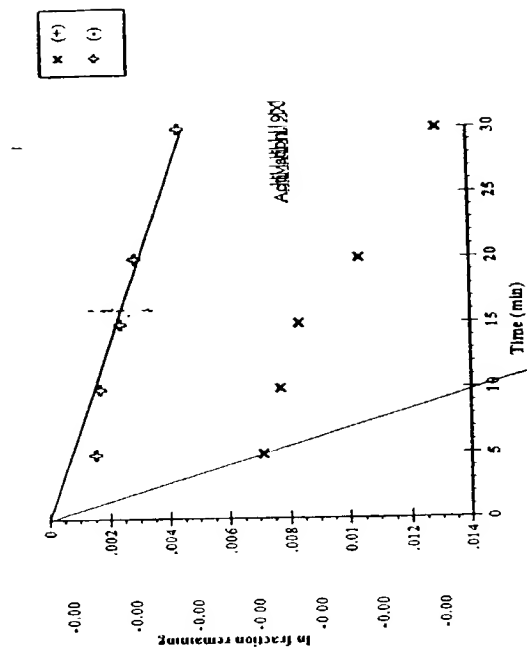


Figure 1 is a chromatogram showing the separation of caffeine and theophylline. The x-axis is labeled 'Caffeine' and 'Theophylline' with numerical markers 5, 10, 15, 20, 30. The y-axis is labeled '(ml)' with markers 5, 10, 15, 20, 30. The chromatogram shows two distinct peaks: a smaller one for caffeine and a larger one for theophylline.



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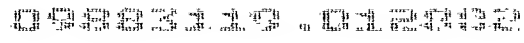


Figure 3.

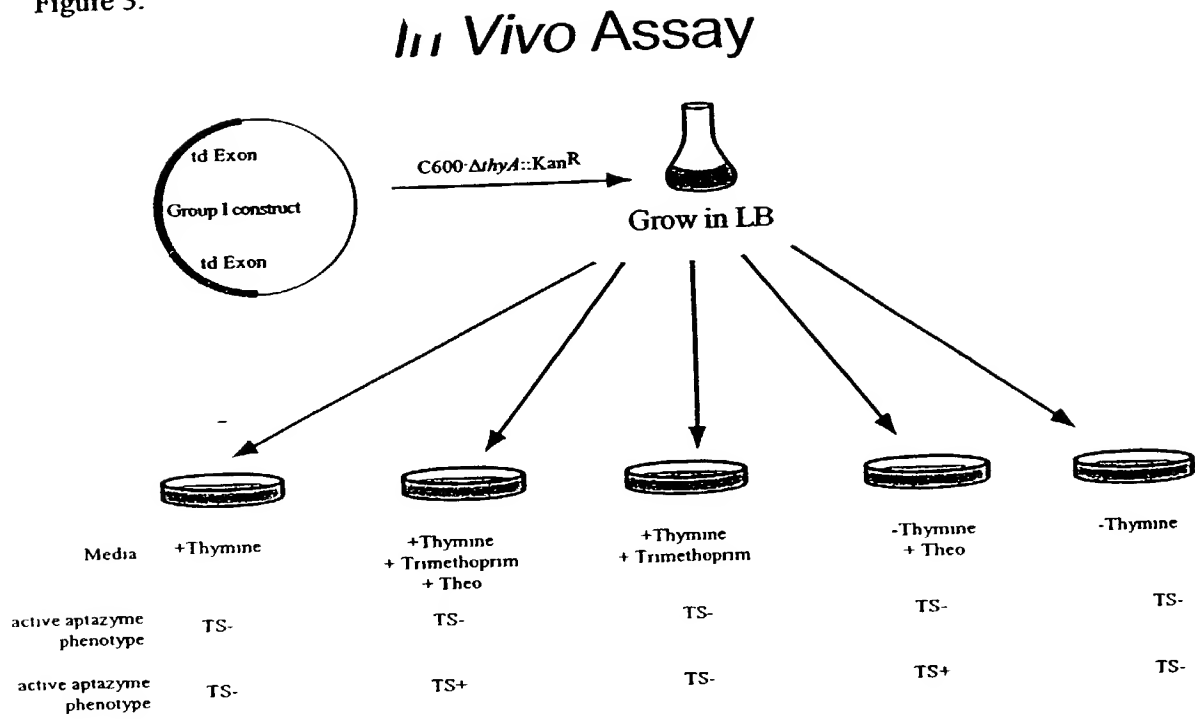


Figure 4.

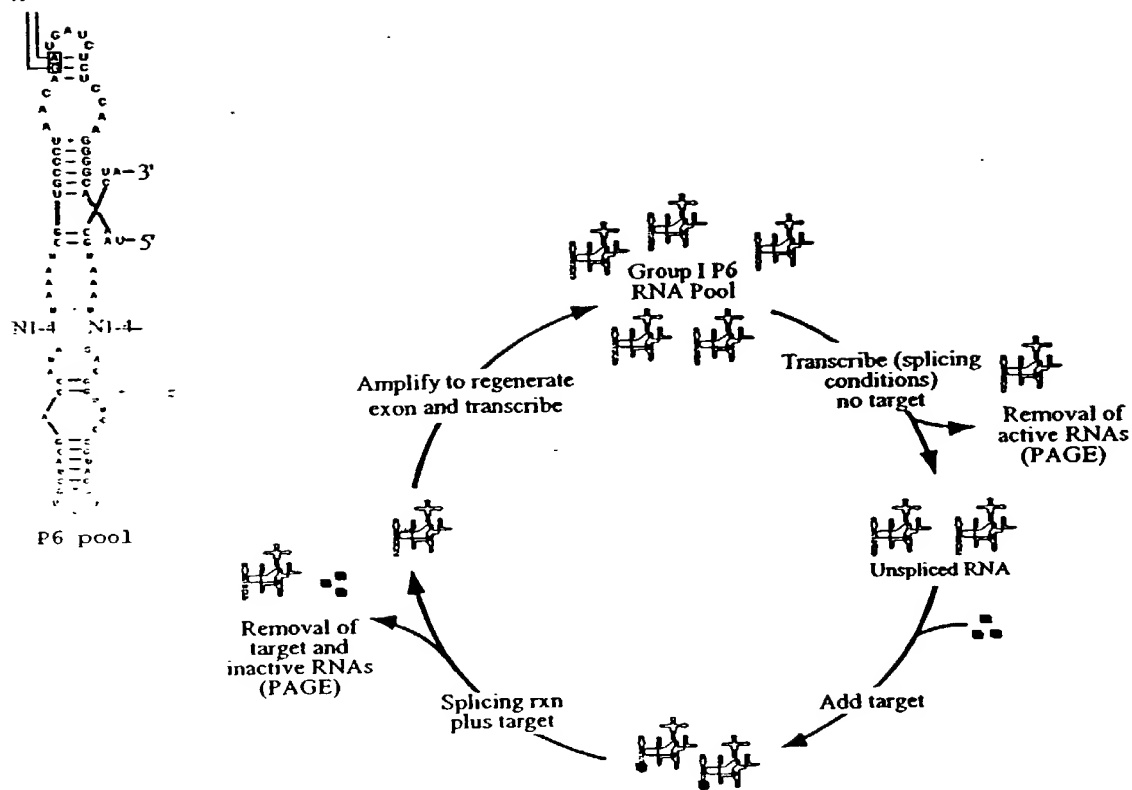


Fig. 5

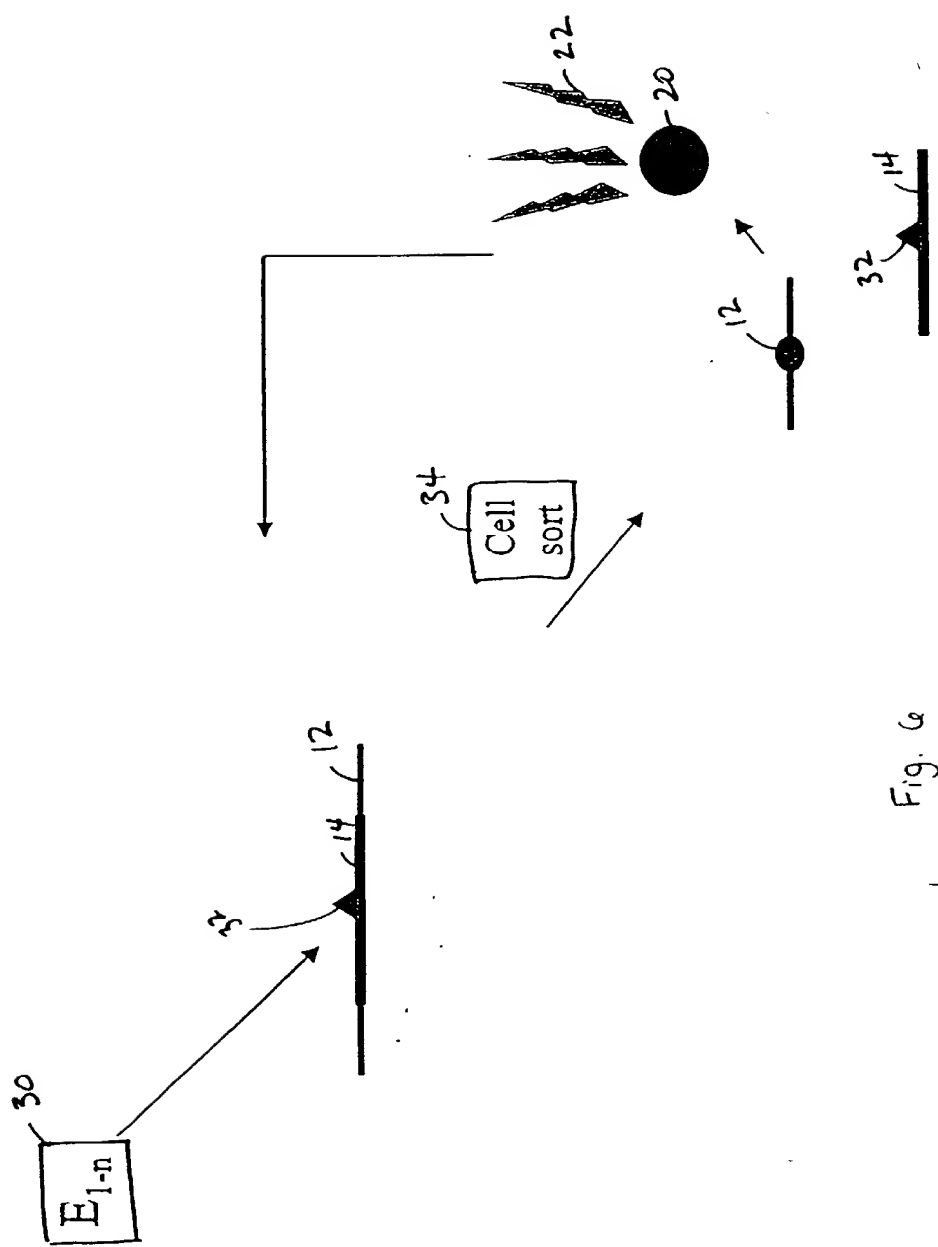


Fig. 6

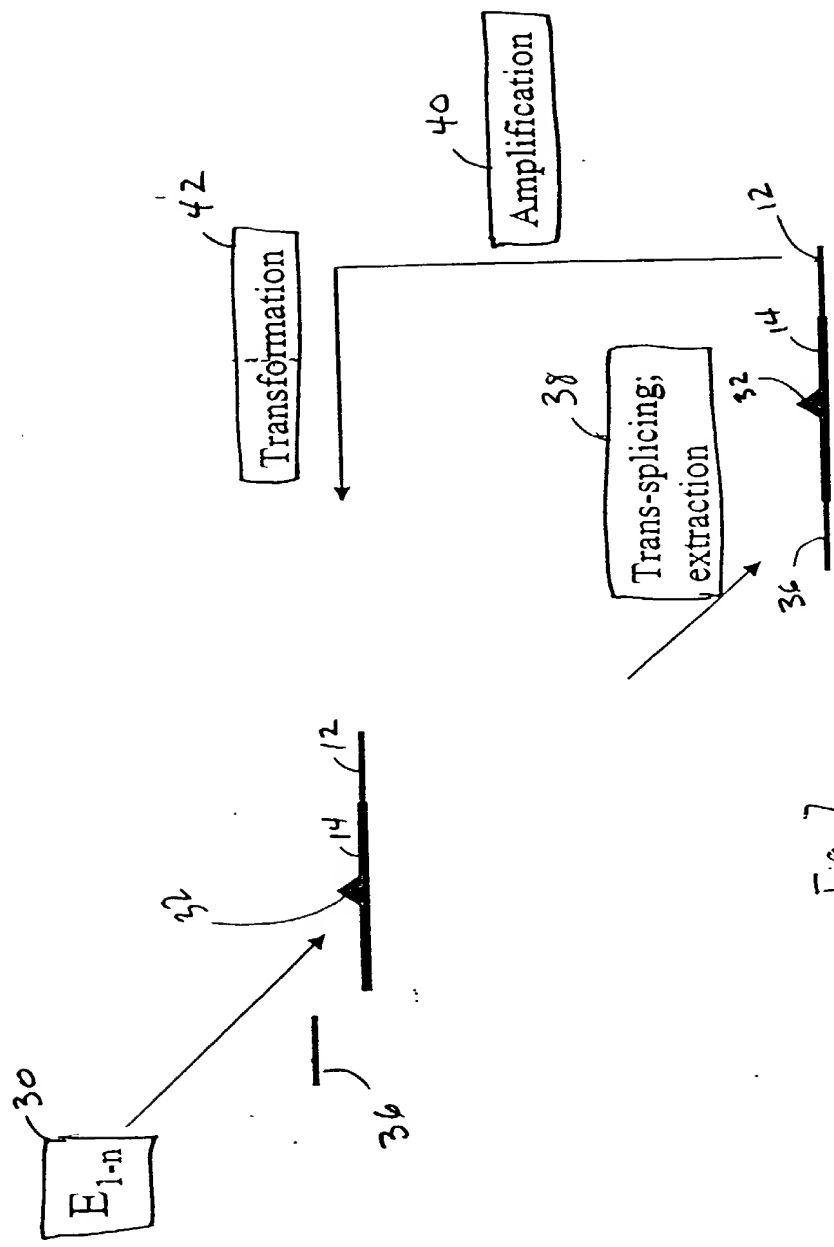
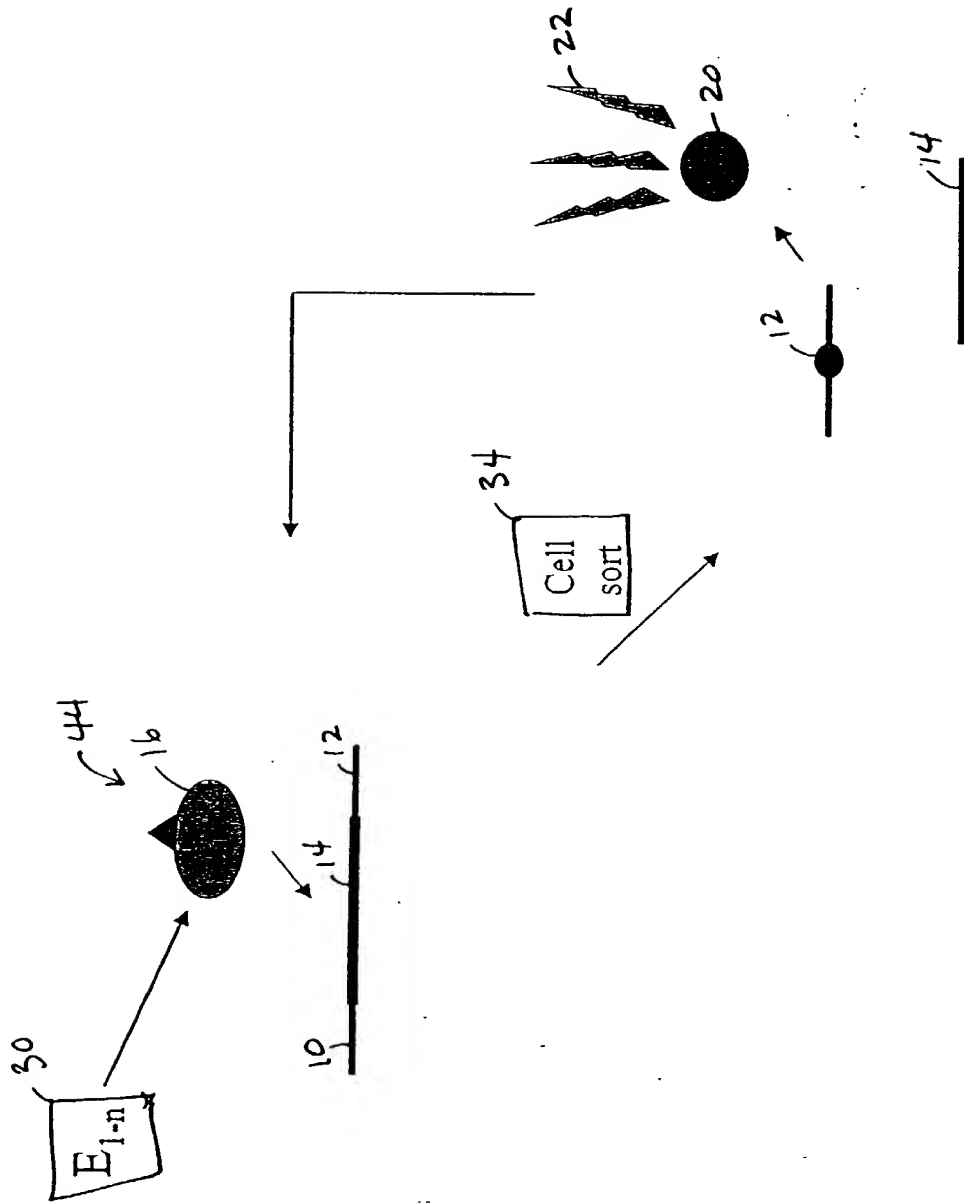


Fig. 7



Fi

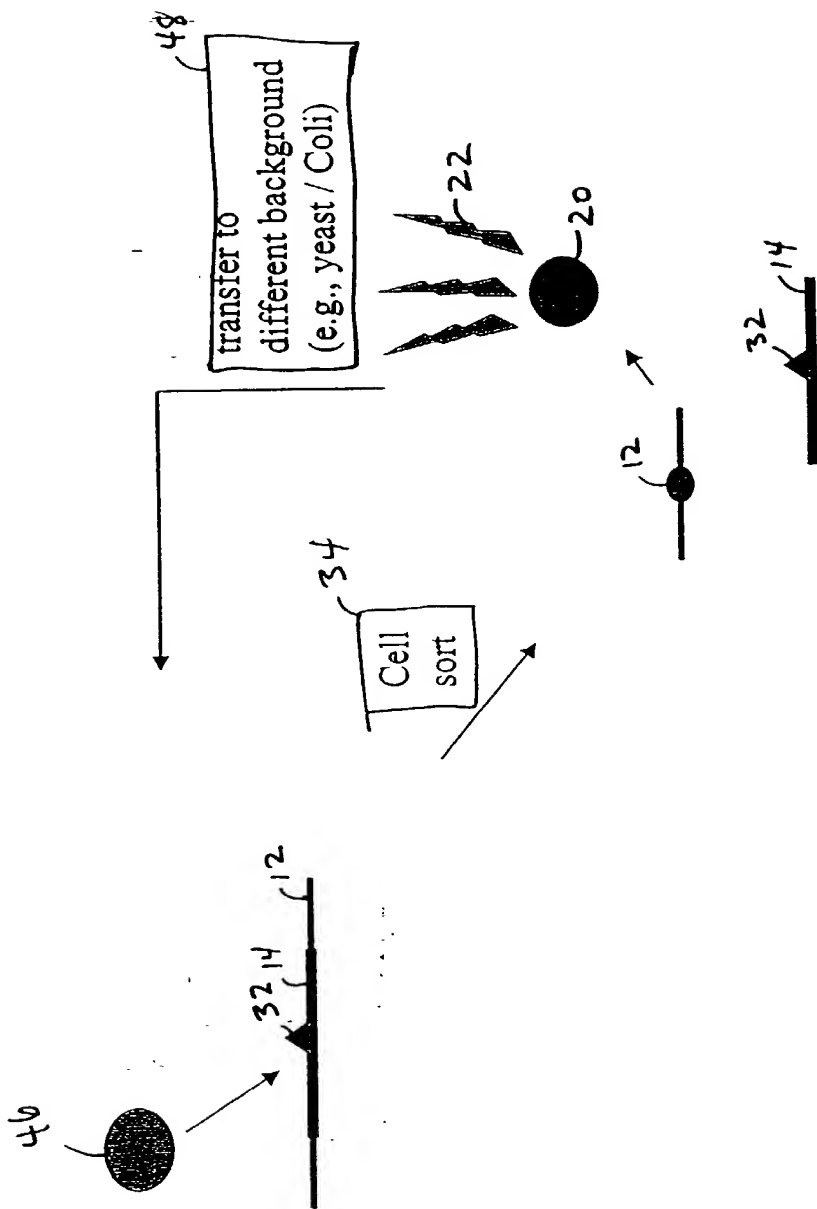
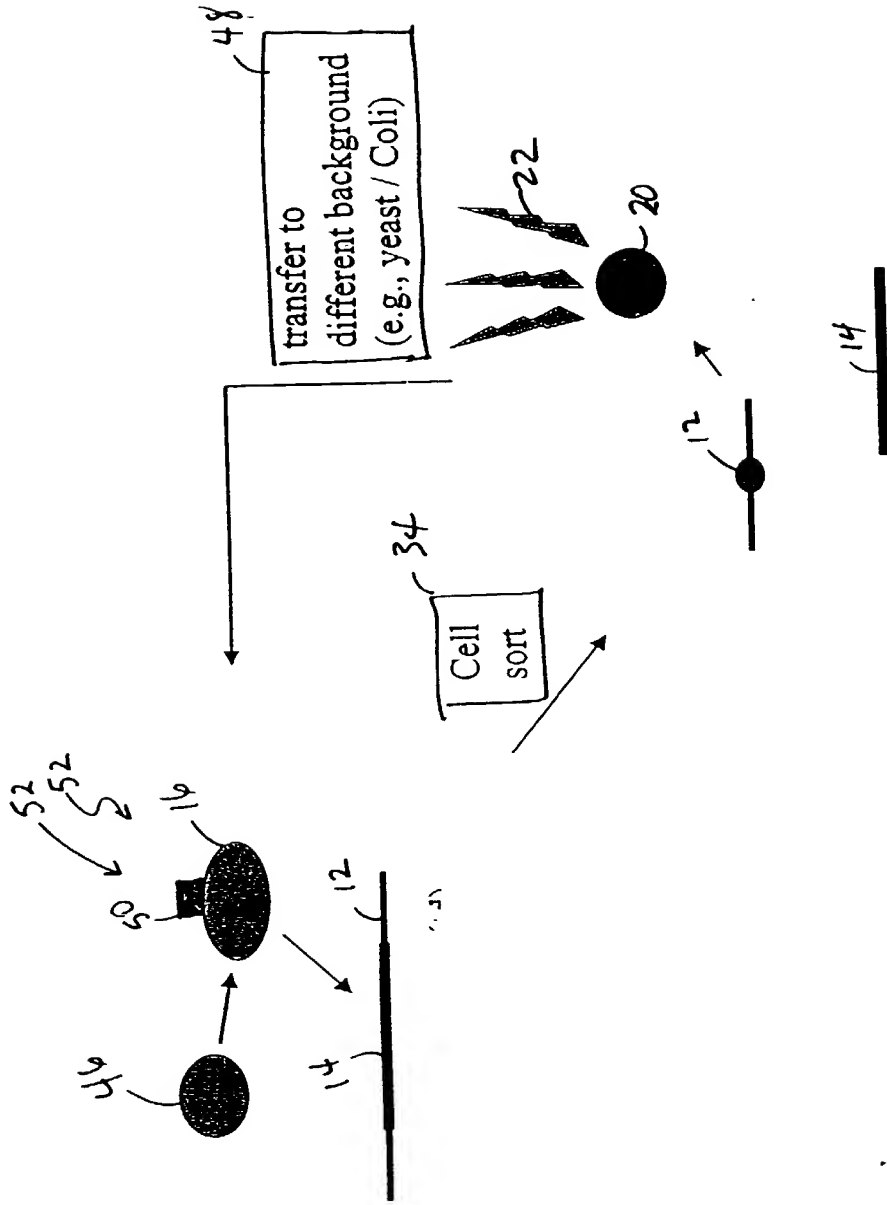


Fig. 9



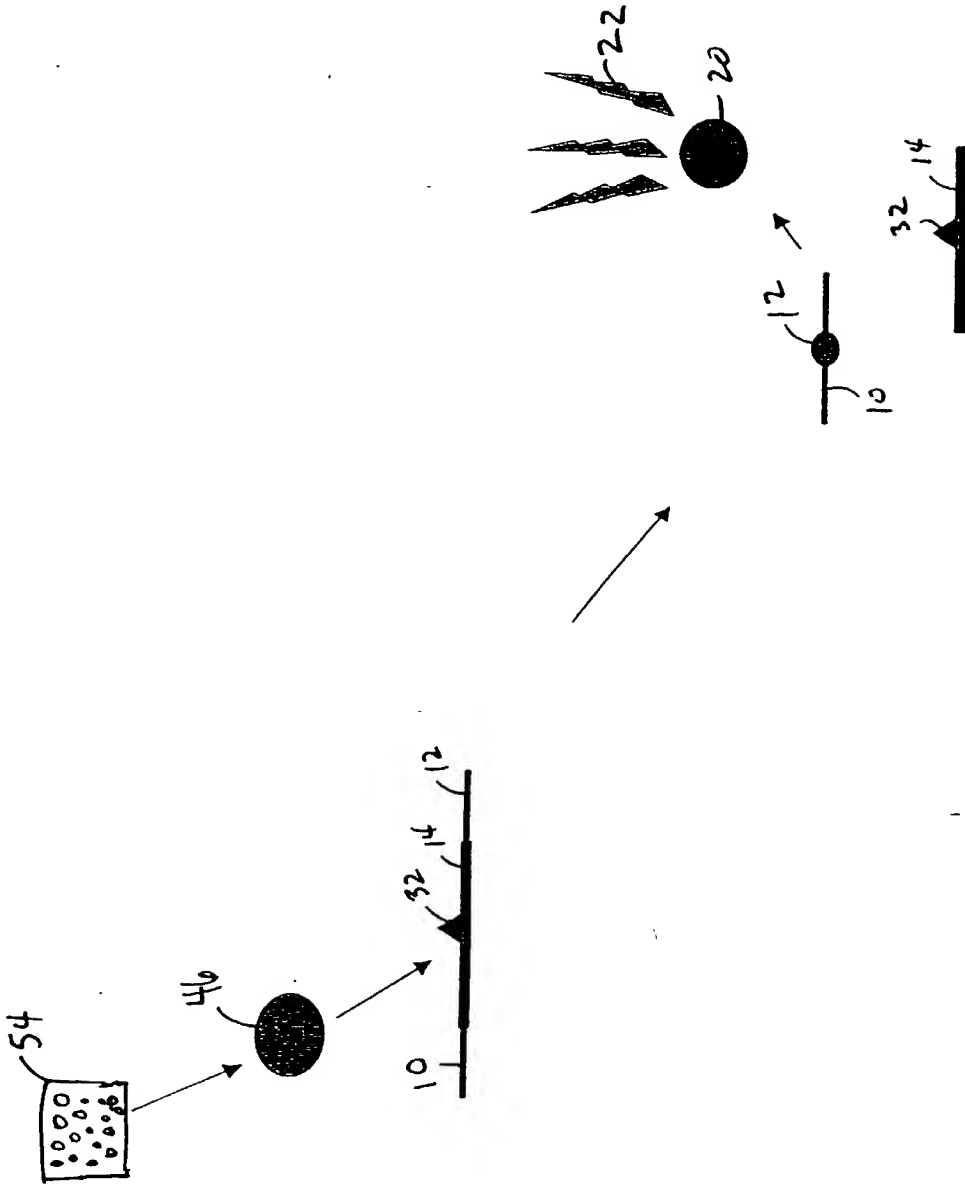


Fig. 11

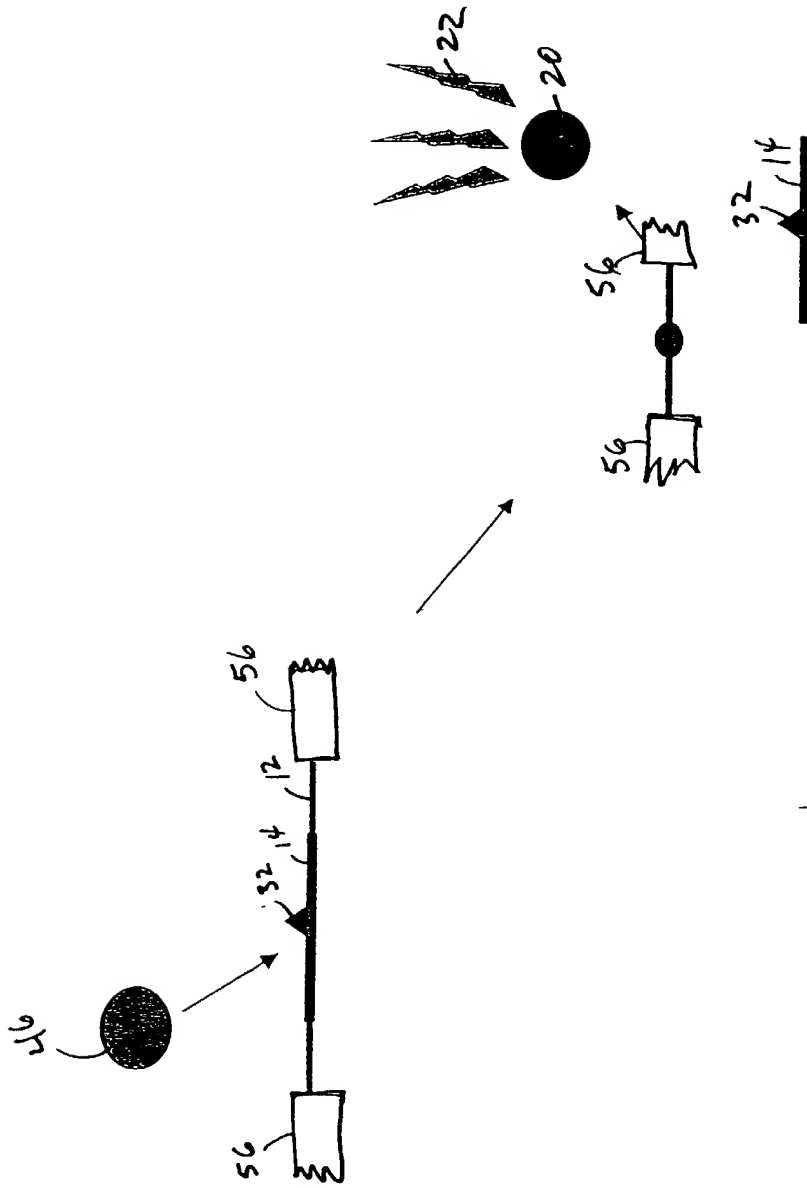


Fig. 12

Fig. 14

Fig. 15a

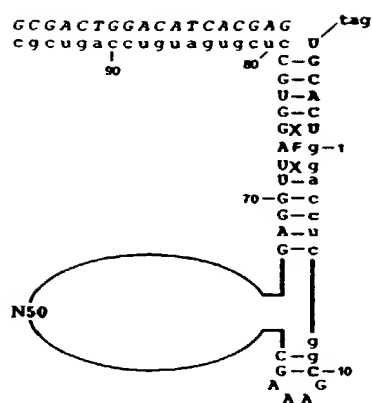


Fig. 156

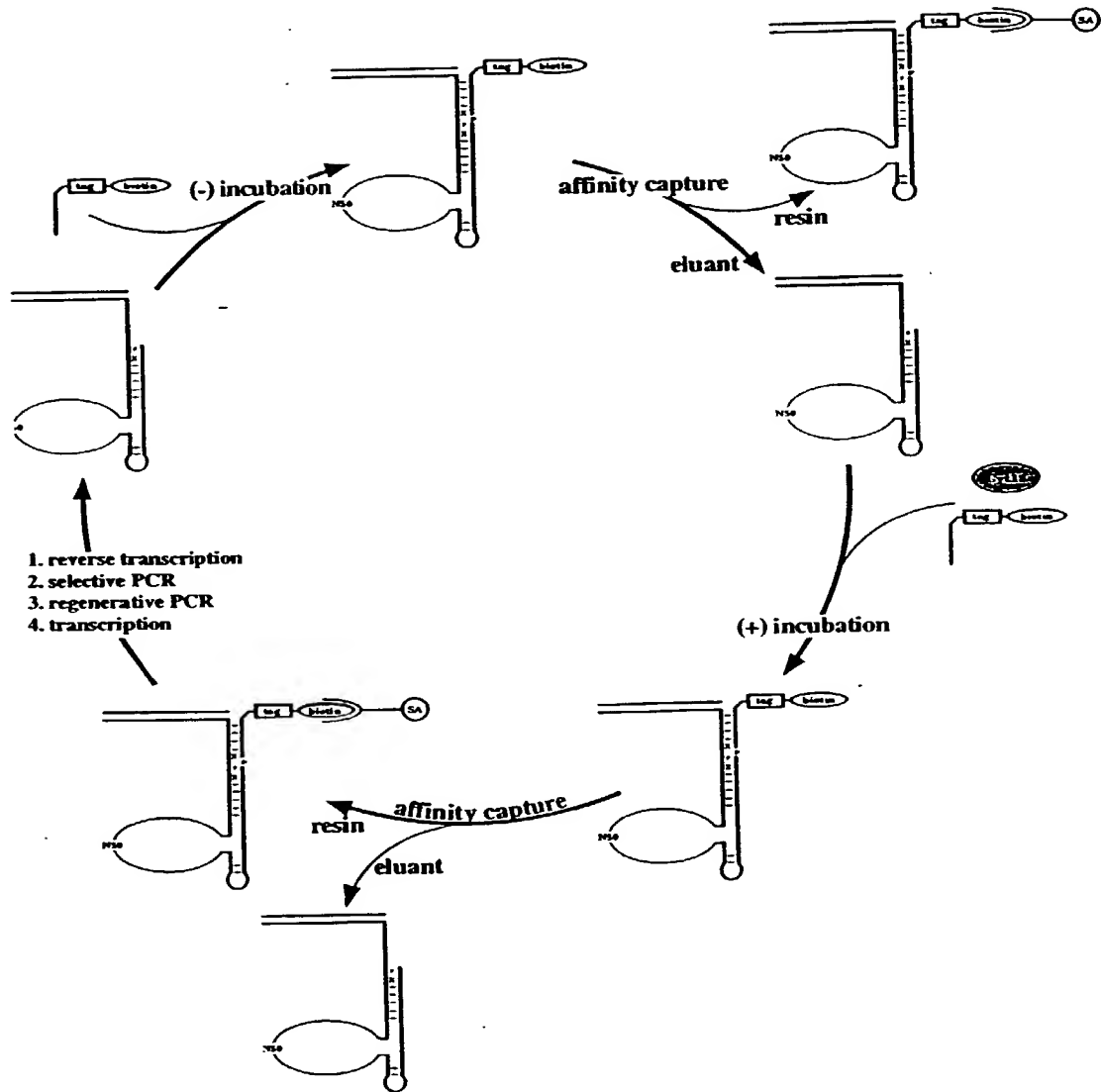


Fig. 15 c

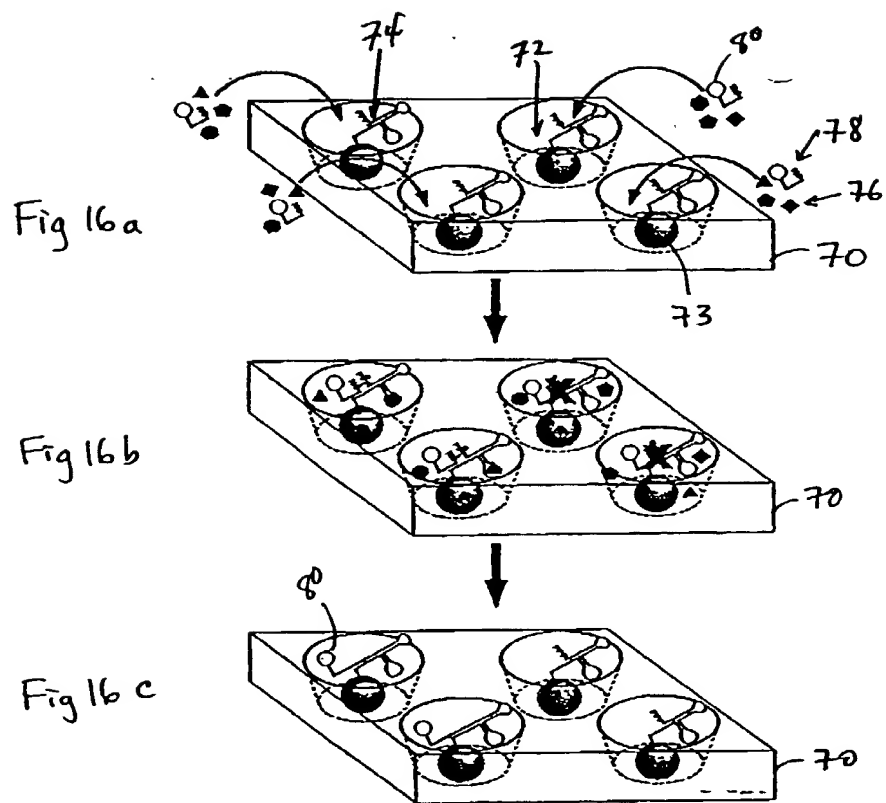


Figure 17

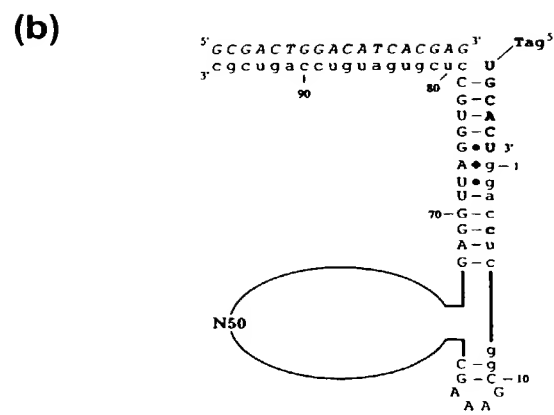
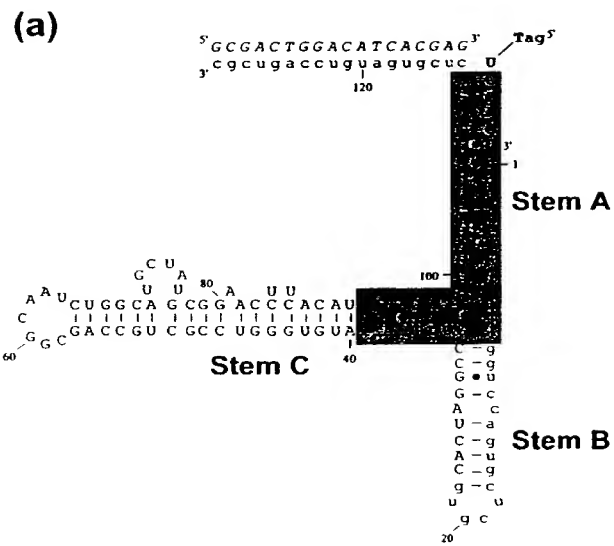


Figure 18

(a)

Round	(-) Incubation		(+) Incubation		Activation
	Substrate	(-) Cyt18	Substrate	(+) Cyt18	
1			2X	14 h	
2	2X	20 h	2X	14 h	
3	2X	20 h	2X	8 h	0.9
4	2X	20 h	2X	1 h	1.0
5	4X	44 h	2X	1 h	26
6	4X	45 h	2X	15 min	1800
7	4X	91 h	2X	5 min	61000
8			1X	30 s	66000
9	4X	20 h	1X	30 s	76000

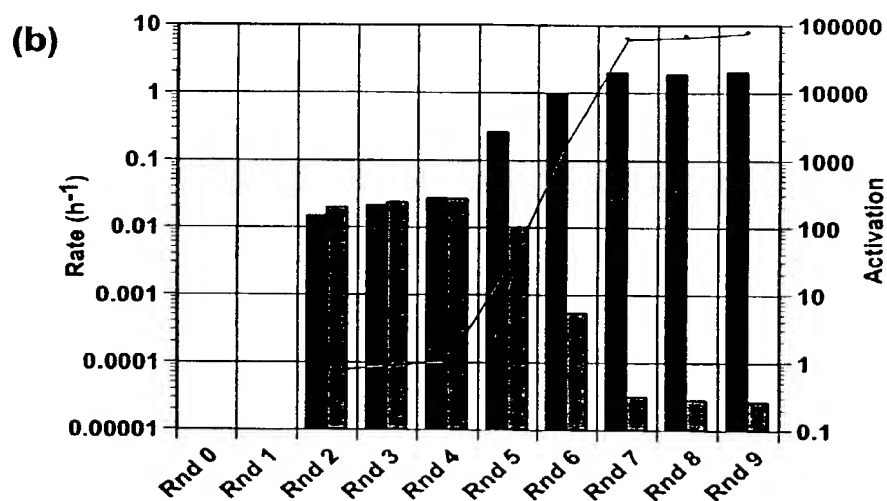


Figure 18

(c)

Round	(-) Incubation		(+) Incubation		Activation
	Substrate	(-) Lys	Substrate	(+) Lys	
1			2X	16 h	
2	2X	22 h	2X	14 h	1.0
3	2X	20 h	2X	8 h	1.0
4	2X	18 h	2X	1 h	1.0
5	4X	44 h	2X	1 h	1.0
6	4X	44 h	2X	15 min	1.7
7	4X	90 h	2X	15 min	5.0
8	4X	93 h	2X	5 min	270
9	4X	92 h	2X	1 min	630
10			1X	30 s	780
11	4X	118 h	1X	30 s	820

(d)

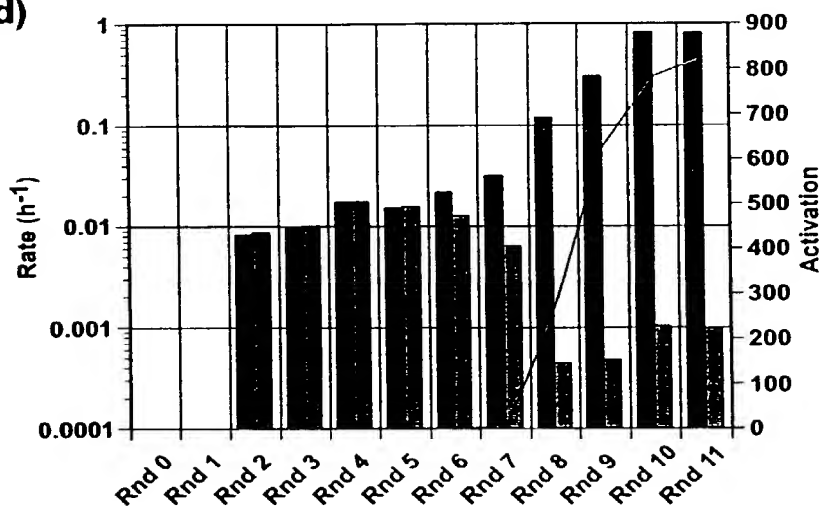
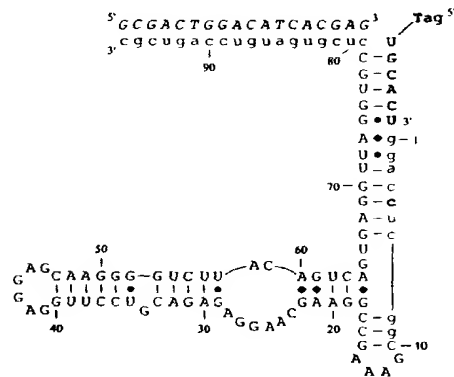


Figure 19

(a)

cyt7-2	(0.61)	CGGAAGCAAGGAGAGACGTCCTTGGAGGAGCAAGGG-----GTCTTACAGTCAGT
cyt7-6	(0.22)	CAGAGCATTAAAG---ACGGGTGACTCTTTAGTTAGGCTCCCCGTTAGTCTTAGG
cyt7-1	(0.08)	CAGAGCATGAAGCGGCCACGGGTGCGATGTTGCCCTTG----GTCAGTCTTGGG
cyt9-2	(0.03)	AGGAACCCCCAGATTGTGTCGGGCTGTTATGCGTCGTTTATTGAGATTAC
cyt9-16	(0.03)	CAGTACGTTAATATCCCGGAGCTAGGTGCTTCTTGTGGACAGTTATGGG
cyt9-18	(0.03)	GCACACAGCACTATATTGCTTGGTTCGGAGCGTTTCGTTTATTGAGTTAC
lys11-2	(0.50)	TAACTCTCATGGCTAAATTGCCATGT-TGCTACAAATGATATGACTAGA
lys11-3	(0.38)	TAACGAAGACTTTGGTGACCGGCTAGTCTTCTATTAATGAGATGACGAGA
lys11-28	(0.08)	TAACTCCCGCACTTAGGAACGGGTGCTGGA-TAAAAATGATATGACGAGA
lys11-6	(0.04)	TTTAAACGAGAGAATTGGCAGTACCGTGCT-GGTTCCGAGATAACGAGA

(b)



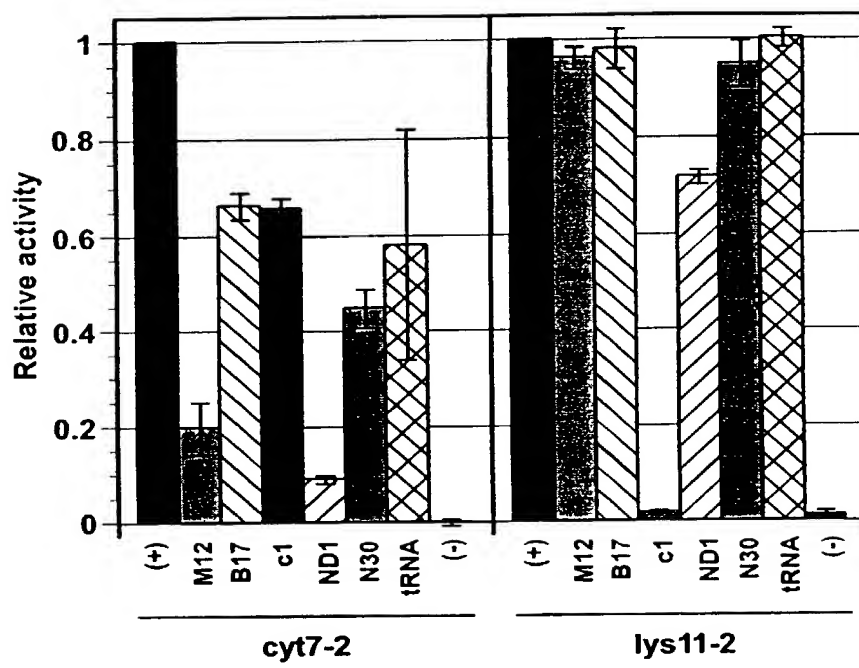


Figure 21

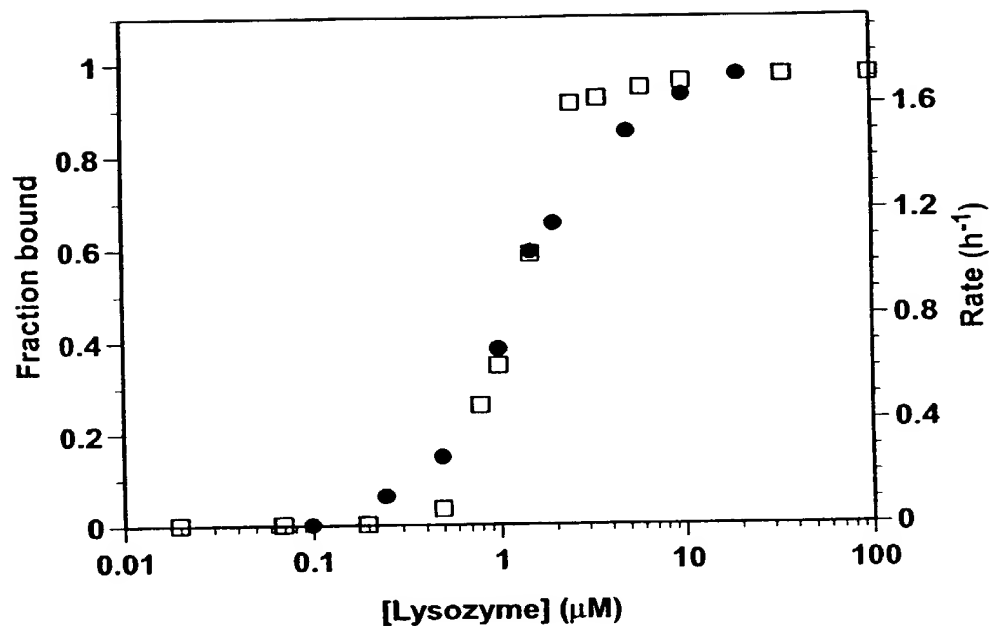


Figure 22

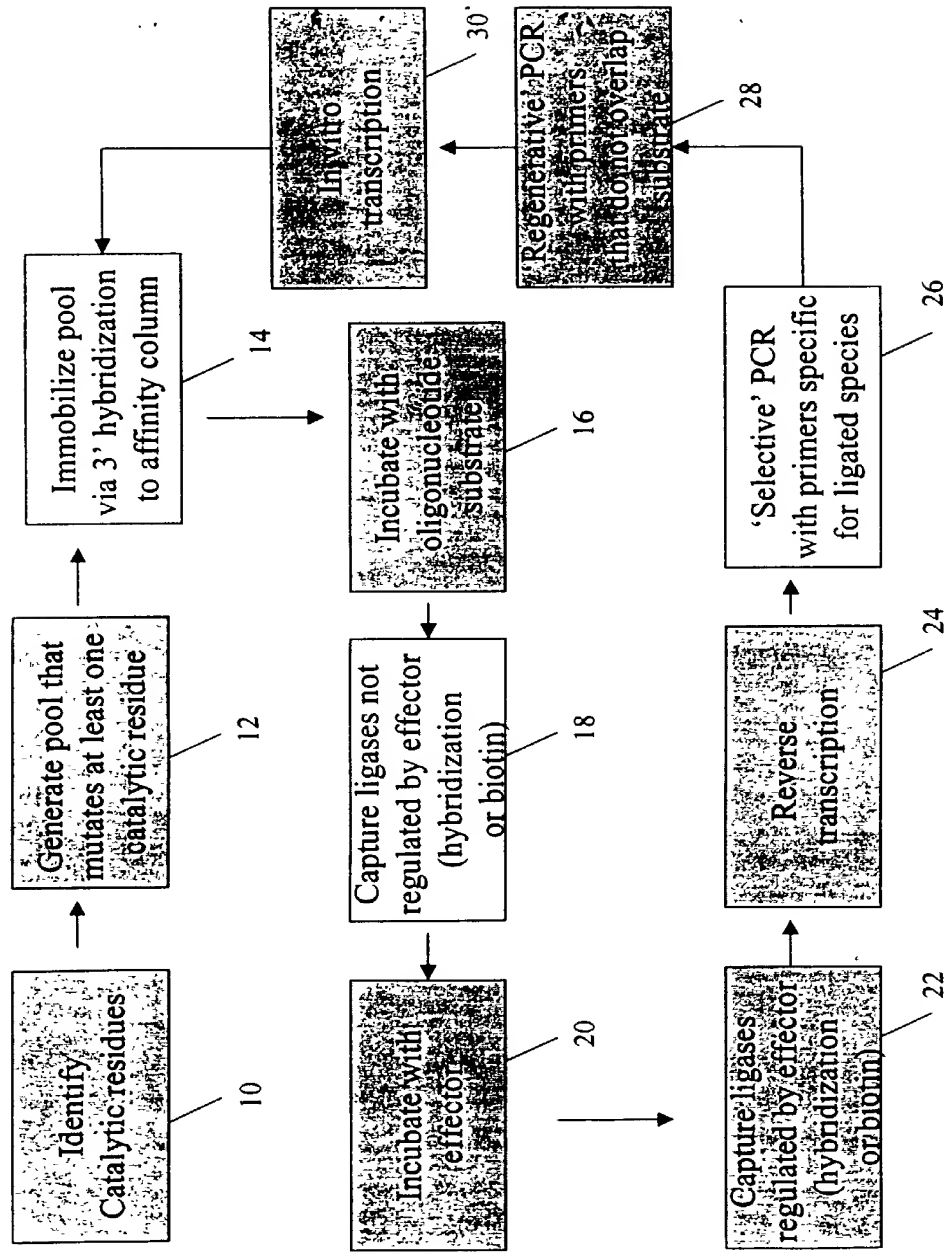
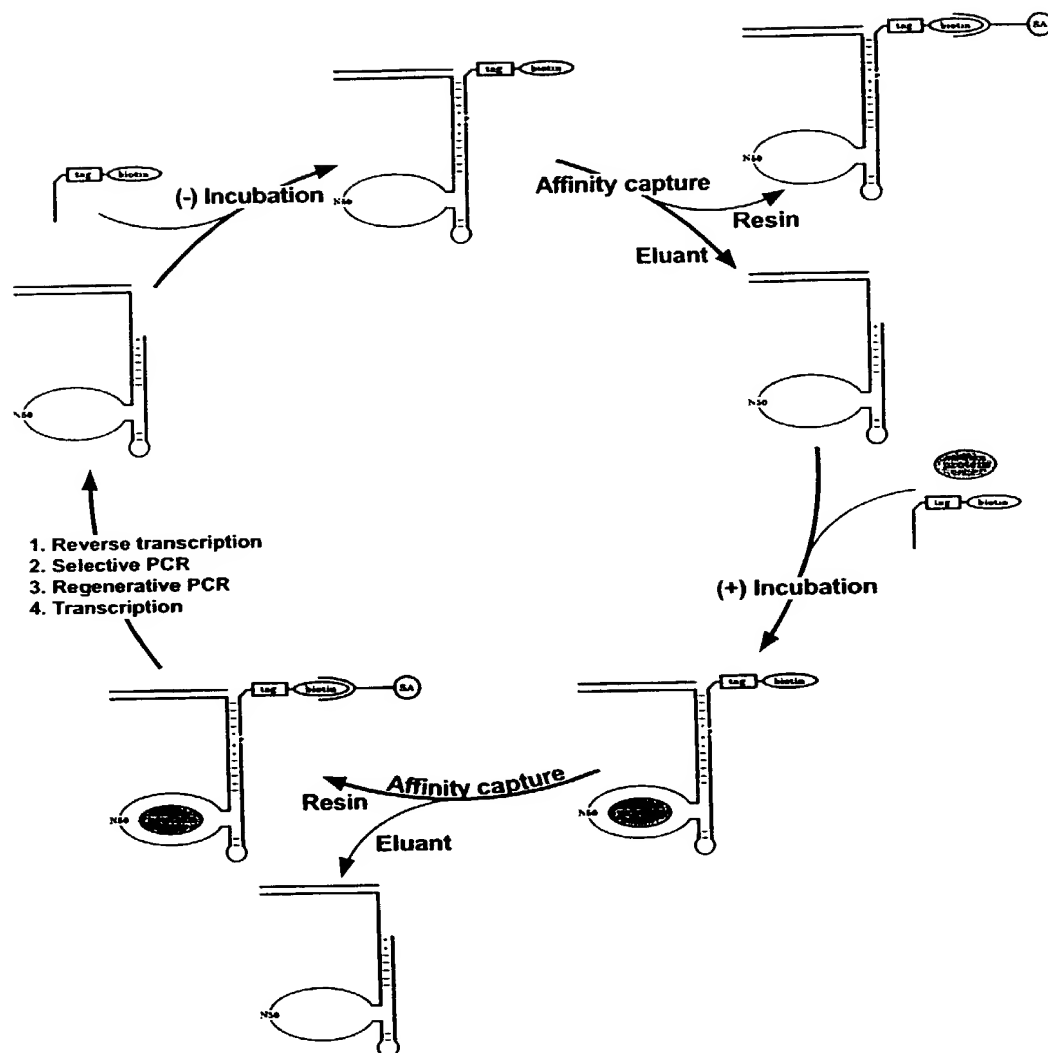


FIGURE 23



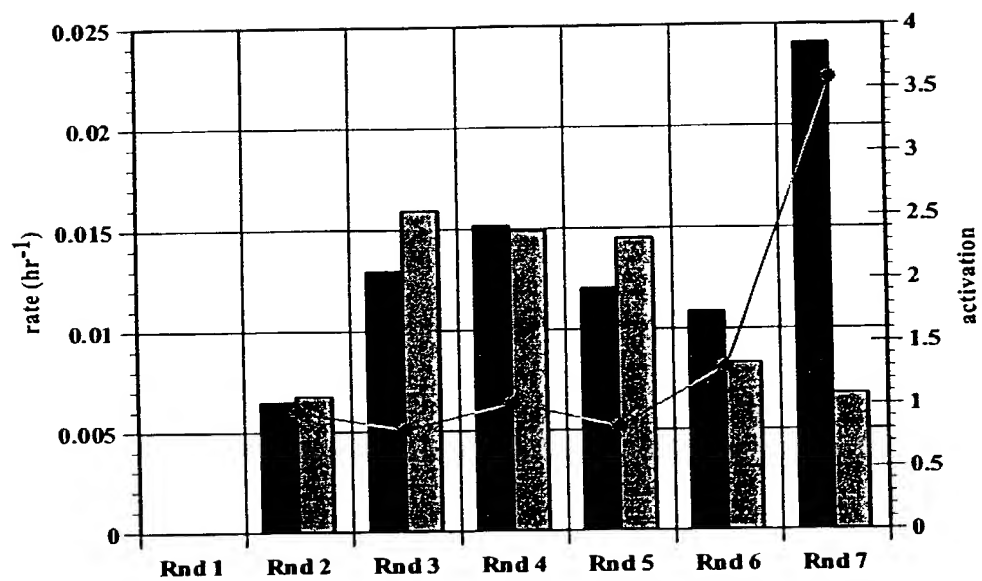
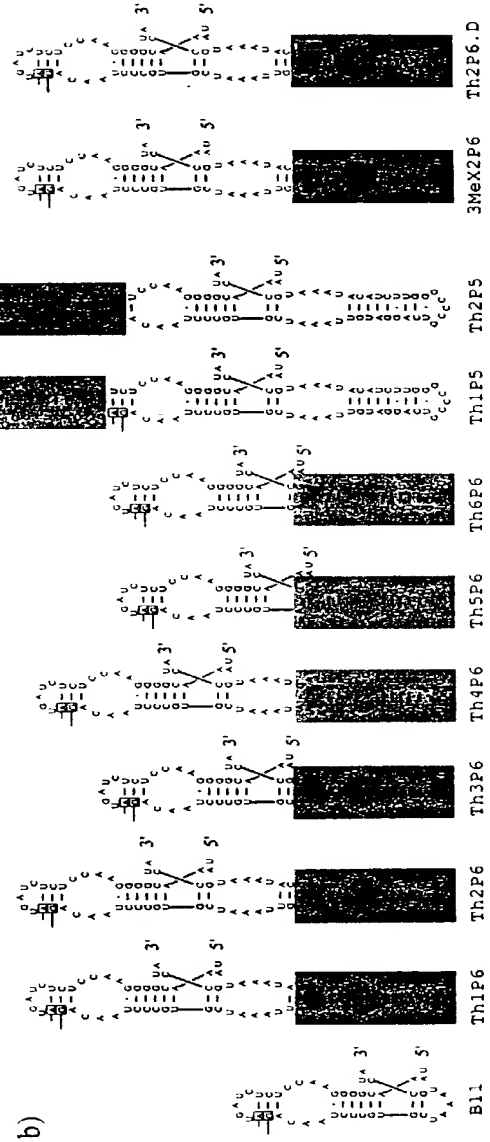
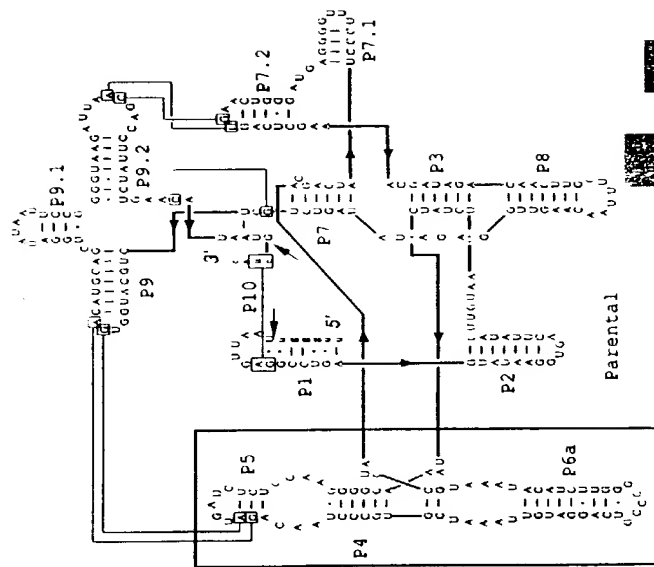
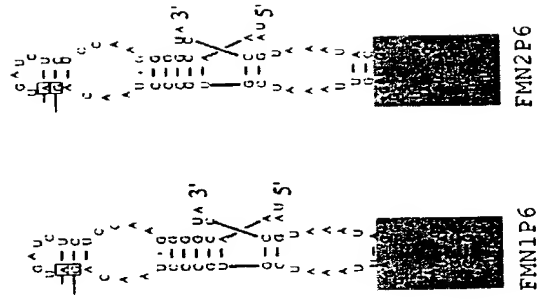


FIGURE 25

[illegible]

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FIGURE 26



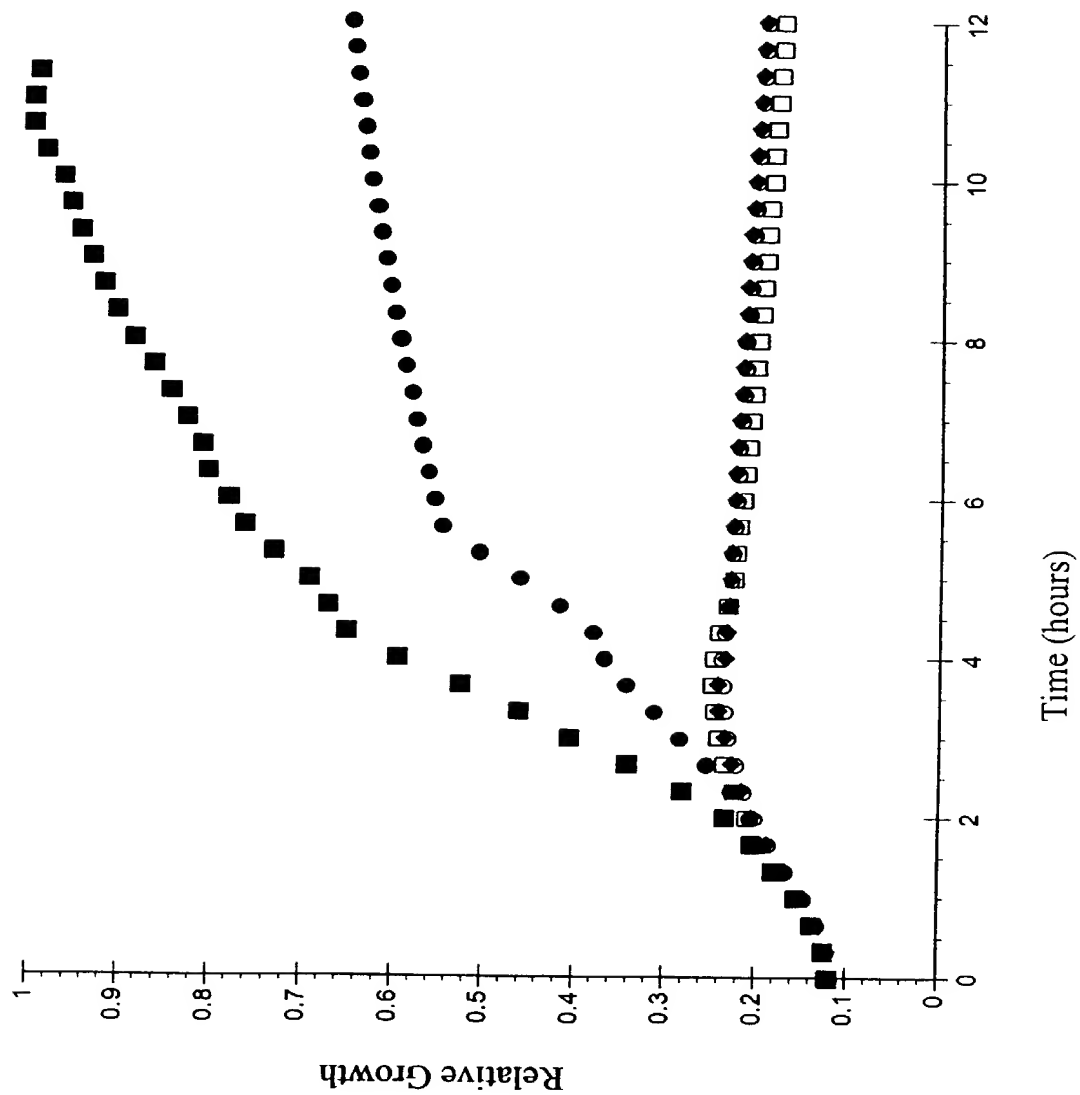


FIGURE 27(a)

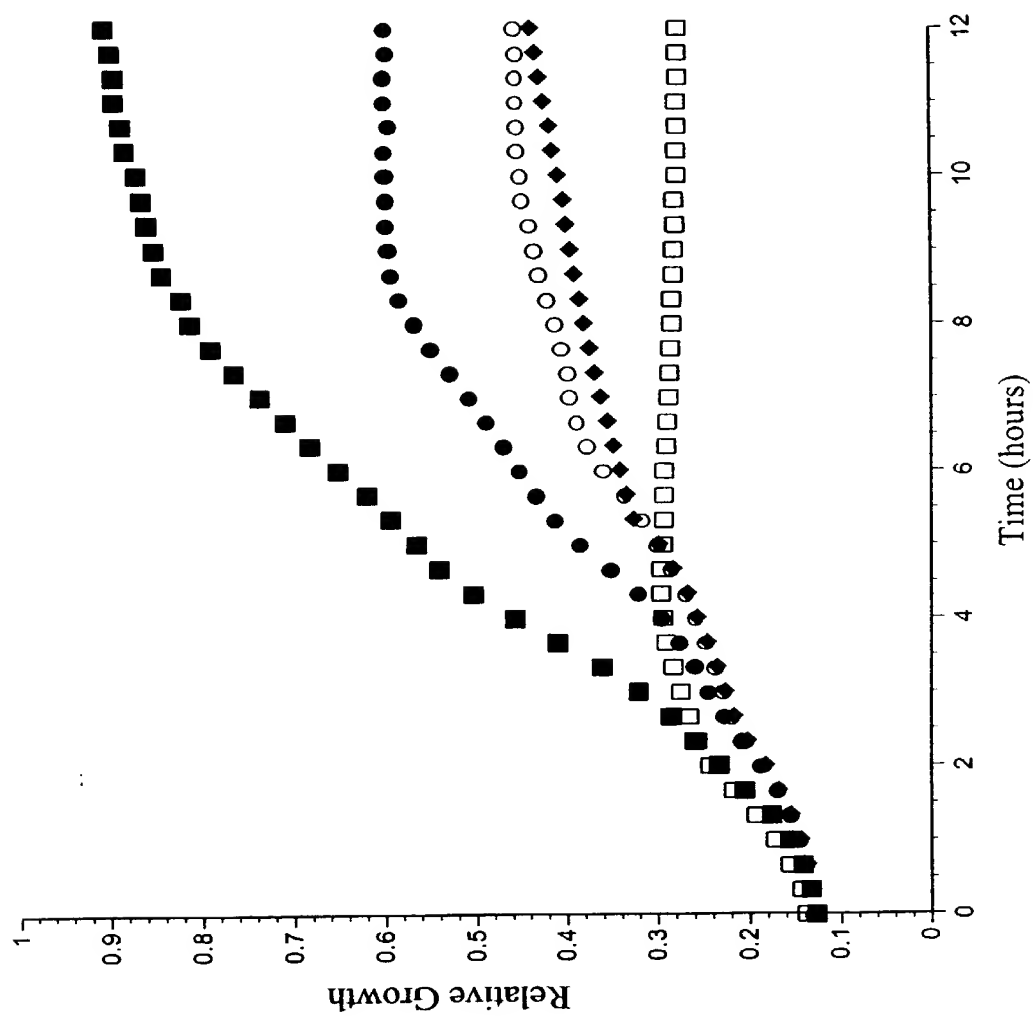


FIGURE 27(b)

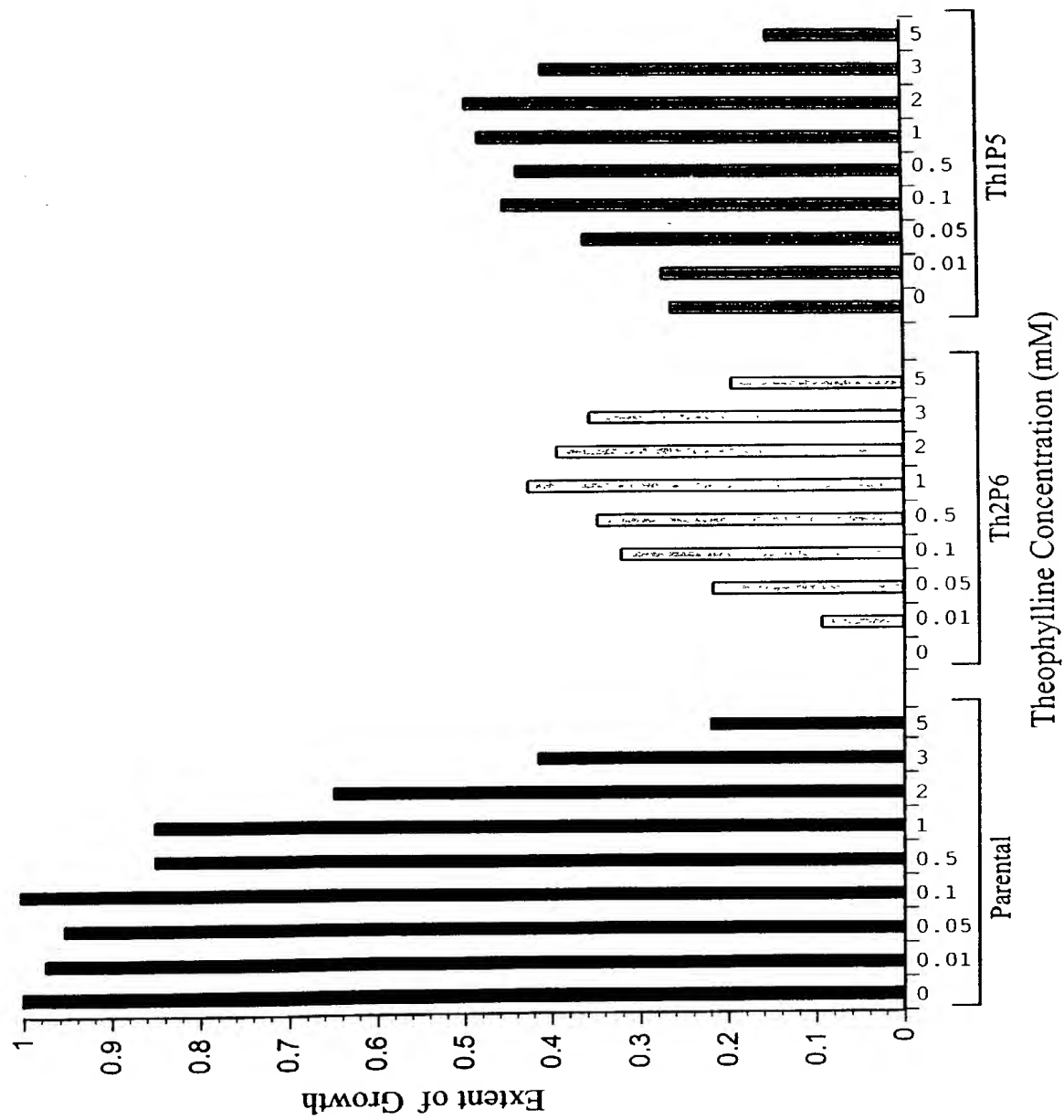


FIGURE 27(c)

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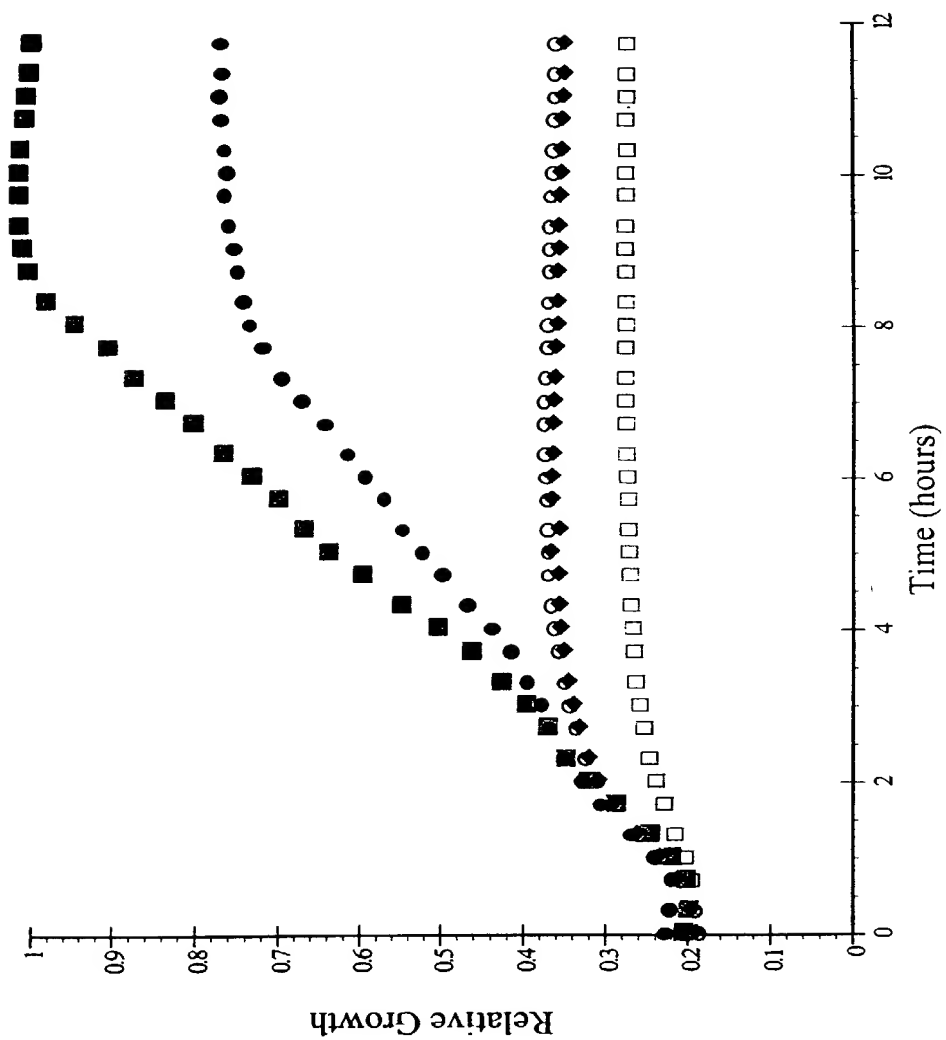


FIGURE 28

FIGURE 29

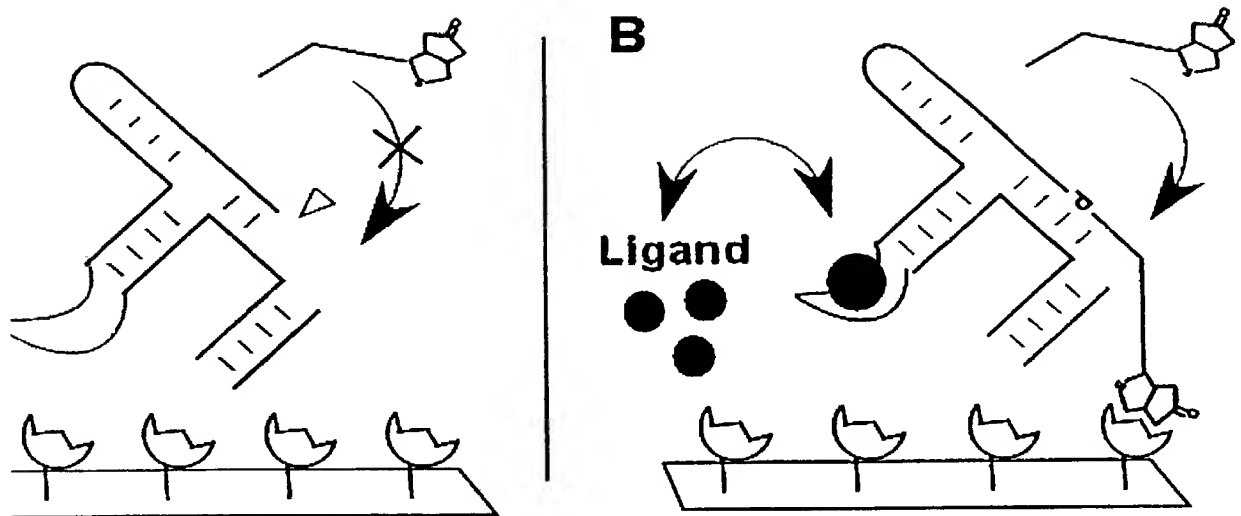
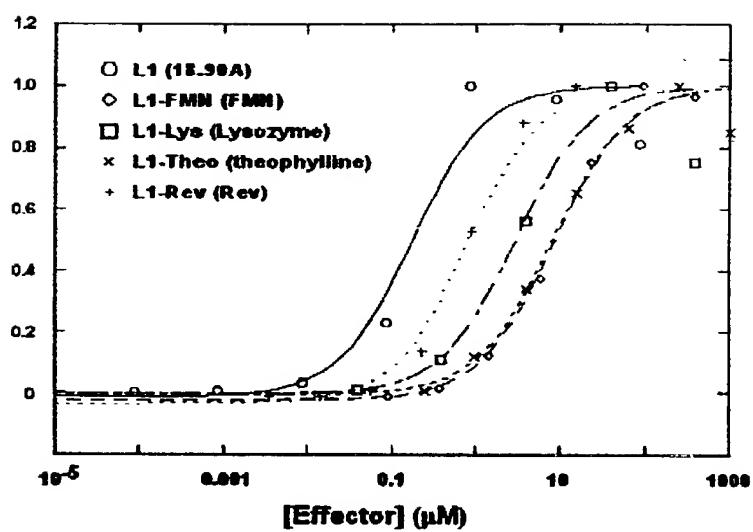


FIGURE 31



<u>Rz</u>	<u>K_d (μM)</u>	<u>% Bound (max)</u>
L1	0.16	16.5
L1-FMN	7.96	14.0
L1-Lys	2.13	22.7
L1-Theo	8.02	3.48
L1-Rev	0.77	19.0